ABSTRACT OF THE DISCLOSURE

A control valve system includes a housing having an inlet port, a first output port, a second output port, and a valve chamber. A primary spool and a secondary spool are independently slidable in the valve chamber. The secondary spool has a first end for abutting against the primary spool and has a second end with a working surface area greater than the working surface areas at the ends of the primary spool. A solenoid valve assembly controllably connects the inlet port to the second end of the secondary spool. A biaser provides a biasing force to the primary spool. A first fluid passage through the primary spool provides fluid communication between the first output port and a second end of the primary spool for displacing the primary spool relative to the secondary spool in an energy saving mode, thereby regulating a pressure at the first output relative to the predetermined magnitude of the biasing force.